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RECORD OF AMERICAN ZOOLOGY.

BY J. S. KINGSLEY.

(Continued from Vol. XXIV., page 1047.)

IT is the intention to catalogue here in systematic order all papers relating to the Zoology of North America, including the West Indies, beginning with the year 1889. An asterisk indicates that the paper has not been seen by the recorder. Owing to the method of preparation it is impossible to collect in one issue all the papers relating to any group, but it is hoped that succeeding numbers will correct this. Authors are requested to send copies of their papers to J. S. Kingsley, Lincoln, Nebraska.

VERTEBRATA.

COPE, E. D.—The homologies of the fins of fishes AM. NAT., XXIV., p. 401, 1890.

MINOT, C.-S.—The concrescence theory of the vertebrate embryo. AM. NAT., XXIV., pp. 501, 702, 1890.

AYERS, H.—Contribution to the morphology of the vertebrate head. *Zool. Anz.*, XIII., p. 504, 1890.—Describes sense organs of the Amphioxus, and discusses segmentation of vertebrate head.

BAUR, G.—On the morphology of the vertebrate skull. *Jour. Morph.*, III., p. 467, 1889 [1890].

HERRICK, C. L.—Suggestions upon the significance of the cells of the cerebral cortex. *Microscope*, X., p. 34, 1890.

PORTER, WM. T.—The presence of Ranvier's constrictions in the spinal cord of vertebrates. *Quart. Jour. Micros. Sci.*, XXXI., p. 91, 1890.

MINOT, C.-S.—Evolution of the medullary canal. AM. NAT., XXIII., p. 1019, 1889 [1890].

COPE, E. D.—Synopsis of the families of vertebrates. AM. NAT., XXIII., p. 849.

NAGAKAWA, ISAAC.—The origin of the cerebral cortex and the homologies of the optic lobe layers in the lower vertebrates. *Jour. Morph.*, IV., p. 1, 1 pl., 1890.

MCCLURE, C. F. W.—The segmentation of the primitive vertebrate brain. *Jour. Morph.*, IV., p. 35., pl. iiii., 1890.—*Vide* AM. NAT., XXIV., p. 187.

GIBBES, H.—The crescent cells of Gianuzzi. *Microscope*, p. 65, 1890.

ELASMOBRANCHII.

PLATT, J. B.—The anterior head-cavities of Acanthias. *Zool. Anz.*, XII., p. 239, 1890.—Describes a pair of cavities in front of the premandibular.

EIGENMANN, C. H. AND R.—Notes from the San Diego Biological Laboratory. *West Am. Scientist*, VI., pp. 123, 147, 1889.—Notes on two sharks and on the embryos of five Elasmobranchs.

BEAN, T. H.—Description of a new Cottoid fish from British Columbia. Proc. U. S. Nat. Mus., XII., p. 641, 1890.—*Synchirus* [n.g.] *gillii.*

TELEOSTS.

BEAN, T. H.—A hybrid between the lake trout and brook trout. Bull. U. S. F. C., VII., p. 216, 1889.

BRAKELEY, JOHN H.—Rapid growth of carp due to abundance of food. Bull. U. S. F. C., VII., p. 20, 1889.

SMILEY, C. W.—Loch Leven trout introduced into the United States. Bull. U. S. F. C., VII., p. 28, 1889.

HAMILTON, W. R.—Croaking of the perch. Bull. U. S. F. C., VII., p. 63, 1889.—In *Haploidonotus grunniens* caused by moving grinders.

EARLL, R. E., AND SMITH, H. M.—The American sardine industry in 1886. Bull. U. S. F. C., VII., p. 161, 1889.—History and statistics.

RAVENEL, W. DEC.—Information bearing upon the artificial propagation of mullet. Bull. U. S. F. C., VII., p. 197, 1889.

JORDAN, D. S.—Note on the occurrence of the opah (*Lampris guttata*) on the Grand Banks. Bull. U. S. F. C., VII., p. 202, 1889.

DUCLOS, G.—La perche argentée d'Amerique ou calicobass.

**Rev. Sci. Nat. Appl.*, No. 1., p. 12, Jan. 1889. Trans. in Bull. U. S. F. C., VII., p. 215, 1889.

EARLL, R. E.—Notes on certain fishery industries of Eastport, Maine, in 1886. Bull. U. S. F. C., VII., p. 267, 1889.—Herring.

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RYDER, J. A.—The continuity of the primary matrix of the scales and the actinotrichia of Teleosts. AM. NAT., XXIV., p. 489, 1890.

JORDAN, D. S—Catalogue of fishes collected at Port Castries, St. Lucia, by the steamer *Albatross*, November, 1888. Proc. U. S. Nat. Mus., XII., p. 645, 1890.—87 species; revision of Harengula; *Corvula sanctæ-luciæ* new.

GILBERT, C. H.—A preliminary report on the fishes collected by the steamer *Albatross* on the Pacific coast of North America during the year 1889, with descriptions of twelve new genera and ninety-two new species. Proc. U. S. Nat. Mus., XIII., p. 49, 1890. The new genera are Leuroglossus, Calotomus, Radulinus, Bathyagonus, Xenochirus, (preoc.) Gillellus, Cryptotrema, Plectobranchus, Lucioblennus, Aprodon, Lycodapus, Lioglossina.

JORDAN, D. S., AND EVERMANN, B. W.—Description of a new species of fish from Tippecanoe River, Indiana. Proc. U. S. Nat. Mus., XIII., p. 3, 1890.—*Etheostoma tippecanoe.*

BEAN, T. H.—Report on the fishes observed in Great Egg Harbor Bay, New Jersey, during the summer of 1887. Bull. U. S. F. C., VII., p. 129, 1889.—Annotated list of 101 species.

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MATHER, FRED.—Report upon the results of salmon planting in the Hudson River. Bull. U. S. F. C., VII., p. 409, 1889.

DRESSLAR, F. B., AND FESLER, B.—A review of the mackerels (Scombrinæ) of America and Europe. Bull. U. S. F. C., VII., p. 429, 1889.—Fifteen species recognized: *Scomber scombrus, S. colias, Auxis thazard, Gymnosarda pelamis, G. alliterata, Albacora alalonga, A. thynnus, Sarda sarda, S. chilensis, Scombero-*

morus concolor, *S. maculatus*, *S. regalis*, *S. cavalla*, *Acanthocybium solandri*, occurring in North America.

BEAN, T. H.—New fishes collected off the coast of Alaska and the adjacent region southward. Proc. U. S. Nat. Mus., XIII., p. 37, 1890.—Results of *Albatross* collections; 17 new species described; the new genera are Bothrocara, Poroclinus, Dasycottus, Malacocottus.

EIGENMANN, C. H. AND R. S.—Description of a new species of Cyprinodon. Proc. Cal. Acad., II., p. 270, 1889.—*C. nevadensis.*

EIGENMANN, C. H. AND R. S.—A list of the American species Gobiidæ and Callionymidæ, with notes on the specimens contained in the Museum of Comparative Zoology at Cambridge Massachusetts. Proc. Cal. Acad., II., i., p. 51, 1889.—74 species enumerated; Clevelandia, n. g.

EIGENMANN, C. H. and R. S.—Notes from the San Diego Biological Laboratory. *West Amer. Scientist*, VI., pp. 124, 147, 1889. —List of 49 Teleosts from Cortez Banks; the new forms are: *Myctophum californiense*, *M. townsendi*, *Notoscopelus brachycheir*, *Ditrema orthonotus*, *Sebastichthys levis*, *Icelinus australis*, *Paricelinus* [n.g.] *hopliticus*. Follows with additions to fauna of San Diego; description of *Phoxinus clevelandi* from Napa County, California, and list of fishes of Allen Springs.

GILL, T. N.—The Halosauroid fishes typical of a special order. AM. NAT., XXIII., p. 1015, 1889 [1890].

——The Notacanthid fishes as representatives of a peculiar order; *l. c.*, p. 1016.

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——The development of *Micrometrus aggregatus*, one of the viviparous surf-perches. AM. NAT., XXIII., p. 923, 1889 [1890].

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HAY, O. P.—The skeletal anatomy of Amphiuma during its earlier stages. *Jour. Morph.*, IV., p. 11, pl. ii., 1890.—Extension of paper in AM. NAT., XXII., p. 315, 1888.

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REPTILIA.

BAUR, G.—The genera of the Podocnemididæ. AM. NAT., XXIV., p. 482, 1890.

——Note on the genera Hydraspis and Rhinemys. AM. NAT., XXIV., p. 484, 1890.

——The genera of the Cheloniidæ. AM. NAT., XXIV., p. 486, 1890.

——On the classification of the Testudinata. AM. NAT., XXIV., p. 530, 1890.

ALDRICH, C. A.—Snakes in high places. AM. NAT., XXIV., p. 782, 1890.

COPE, E. D.—Snakes in banana bunches. AM. NAT., XXIV., p. 782, 1890.

STEJNEGER, L.—Annotated list of Reptiles and Batrachians collected by Dr. C. Hart Merriam and Vernon Bailey on the San Francisco mountain plateau and the desert of the Little Colorado, Arizona, with descriptions of new species. *North American Fauna*, No. 3, p. 103, 1890.—19 species enumerated, of which *Crotaphytus baileyi* is new; in foot-notes *Crotaphytus silus* (Cal., Wash.), *Uta palmeri* (Gulf of Cal.), *Uta laevis* (N. Mex.), are described.

BOULENGER, G. A.—First report on additions to the lizard collection in the British Museum. Proc. Zool. Socy. London, 1890, p. 77.—New species from America is *Anolis panamensis.*

SHUFELDT, R. W.—Contributions to the study of *Heloderma suspectum.* Proc. Zool. Socy. London, 1890, p. 148.—Extended study of its anatomy.

STEJNEGER, L.—Description of a new lizard from Lower California. Proc. U. S. Nat. Mus., XII., p. 643, 1890.—*Cnemidophorus labialis.*

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* FEILDEN, H. W.—Notes on the Reptiles of Barbadoes. *Zoologist,* XIII., p. 295, 1889. Addendum, p. 352.

GARMAN, S. W.—Reptiles and Batrachians from the Caymans and from the Bahamas. Bulletin Essex Inst., XX., p. 101, 1889. —*Vide* AM. NAT., XXIII., p. 918, 1889.

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STEJNEGER, L.—Contributions to the history of Pallas's cormorant. Proc. U. S. Nat. Mus., XII., p. 83, 1889 [1890].—A catalogue of specimens; publication of Brandt's description and account of finding of bones.

LUCAS, F. A.—Description of some bones of Pallas's cormorant (*Phalacrocorax perspicillatus*). Proc. U. S. Nat. Mus., XII., p. 88, 1889 [1890].—Descriptions and figures of bones found by Dr. Stejneger.

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* ——American Ornithologists' Union. Check-list of North American birds. Second supplement, New York, 1890.

* WATERHOUSE, F. H.—Index generum avium. A list of the genera and subgenera of birds. London, 1889, p. 240.

* BRYANT, W. E.—Unusual resting sites. Proc. Cal. Acad. Sci., II., i., p. 7.

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*CORY, C. B.—The birds of the West Indies, including all species known to occur in the Bahama Islands, the Greater Antilles, the Caymans, and the Lesser Antilles, excepting the islands of Tobago and Trinidad. Boston, 1889, 324 pp., 2 maps.

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*——Osteology of *Circus hudsonius; l. c.*, 1889.

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——*Dendroica coronata* feeding upon oranges. *Auk*, VI., p. 279, 1889.

——The present status of the wild pigeon (*Ectopistes migratorius*) as a bird of the United States, with some notes on its habits. *Auk*, VI., p. 337, 1889.

——*Melanerpes carolinus* eating oranges. *Auk*, VI., p. 337, 1889.

BENDIRE, C. E.—Description of the nest and eggs of *Megascops asio maxwelliæ*, the Rocky Mountain screech owl. *Auk*, VI., p. 298, 1889.

CHAMBERLAIN, M.—Some account of the birds of Southern

Greenland, from the MS. of A. Hagerup. *Auk*, VI., p. 211, 1889.

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JOHNSON, F. O.—*Polioptila plumbea* at Palm Springs, California. *Auk*, VI., p. 280.

KIMBALL, F. H.—Mortality among eave-swallows. *Auk*, VI., p. 338.

LOOMIS, L. M.—The raven as a South Carolinian. *Auk*, VI., p. 277.

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PINDER, L. O.—List of the birds of Fulton County, Kentucky. *Auk*, VI., p. 310.—183 species.

RICHMOND, C. W.—The yellow-throated warbler (*Dendroica dominica*) near Washington. *Auk*, VI., p. 339.

RAGSDALE, G. H.—On the hiatus existing between the breeding

ranges of the loggerhead and white-rumped shrikes. *Auk*, VI., p. 224.

REED, J. H.—*Troglodytes aëdon* (house wren) building in a hornet's nest. *Auk*, VI., p. 339.

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SCOTT, W. E. D.—On the specific identity of *Buteo brachyurus* and *Buteo fuliginosus*, with additional records of their occurrence in Florida. *Auk*, VI., p. 243.

——A second specimen of Cory's bittern (*Botaurus neoxenus*). *Auk*, VI., p. 317.

SAGE, J. H.—The interbreeding of *Helminthophila pinus* and *H. chrysoptera*. *Auk*, VI., p. 279.

SENNETT, G. B.—*Micropallas whitneyi* (elf owl) taken in Texas. *Auk*, VI., p. 276.

——A new species of duck from Texas. *Auk*, VI., p. 263.—*Anas maculosa*.

TORREY, B.—The killdeer plover wintering on the New England coast. *Auk*, VI., p. 274.

THORNE, P. M.—*Phalaropus lobatus* and *Phalaropus tricolor*. *Auk*, VI., p. 366.

WASHBURN, F. L.—Recent capture of Kirtland's warbler in Michigan, and other notes. *Auk*, VI., p. 279.

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* SALVIN, O., AND GODMAN, F. d. C.—Notes on Mexican birds. *Ibis*, VI., i., p. 232 and 380.—9 new species.

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* BELDING. L.—The humming birds of the Pacific coast north of Cape St. Lucas. *W. A. Scientist*, VI., p. 109, 1889.

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leucoparia (Tex.), *S. saxatilis* (Utah), *S. phenax* (Cal.), *S. latifrons* (Ore.), are new.

——Descriptions of five new ground squirrels of the genus Tamias; *l c.*, p. 17.—*T. castanurus* (Utah), *T. chrysodeirus* (Oreg.), *T. cinerascens* (Mont.), *T. interpres* (Tex.), *T. melanurus* (Idaho).

——Description of a new Evotomys from Colorado; *l. c.*, p. 23.—*E. galei.*

——Descriptions of two new species of Evotomys from the Pacific coast of the United States; *l. c.*, p. 25.—*E. occidentalis* (Wash.), *E. californicus* (Cal.).

——Description of a new marten (*Mustela caurina*) from the northwest coast regions of the United States; *l. c.*, p. 27.

——Description of a new species of Molossus from California (*Molossus californicus*); *l. c.*, p. 31.

——Description of a new prairie dog from Wyoming; *l. c.*, p. 33.—*Cynomys leucurus.*

——Descriptions of three new ground squirrels of the *Spermophilus spilosoma* group; *l. c.*, p. 37.—*S. cancocens* (Ariz.), *S. macrospilotus* (Ariz.), *S. major* (New Mexico).

——Descriptions of three new species of kangaroo rats, with remarks on the identity of *Dipodomys ordii* of Woodhouse; *l. c.*, p. 41.—*ordii* belongs to genus *Dipodops;* new species are: *Dipodomys ambiguus* (Tex.), *D. spectabilis* (Ariz., Mex., N. Mex.), *D. californicus.*

——Description of a new pocket gopher of the genus Geomys, from Western Nebraska; *l. c.*, p. 51.—*G. lutescens.*

——Description of a new species of Hesperomys from Southern Florida; *l. c.*, p. 53.—*H. macropus.*

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*——Description of a new species of the genus Sigmodon from Southern Florida; *l. c.*, p. 118.—*S. hispidus litoralis.*

*——Preliminary descriptions of two apparently new species of the genus Hesperomys from Florida; *l. c.*, p. 117.—*H. floridanus*, *H. niveiventris.*

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EDITORIAL.

EDITORS, E. D. COPE AND J. S. KINGSLEY.

WE congratulate our readers and other countrymen that the United States Government has at length partially removed a tax on intelligence which has been our opprobrium for many years. We refer to the duty imposed on books imported or received in exchange by private students and investigators from foreign countries. A committee to obtain this reduction was appointed by the American Association for the Advancement of Science at its New York meeting, which now consists of Profs. J. R. Eastman, Washington, S. A. Forbes, Champaign, Ill., and E. D. Cope, Philadelphia (chairman). This committee has not been inactive, and has extended its labors through several administrations. During the preparation of the Morrison tariff bill endeavors were used, which were not successful, to have scientific